Qty:

6 Um:

Each

: DOUBLER

: D314098

. D3140 REV F

User:

Friday, 8/31/2007 11:53:32 AM .

Kim Johnston

**Process Sheet** 

**Drawing Name** 

Part Number

Material

**Due Date** 

**Drawing Number** 

Project Number

**Drawing Revision** 

Customer Job Number

Prsht Rev.

: CU-DAR001 Dart Helicopters Services

34376

Estimate Number P.O. Number This Issue

: 11469 : 8/31/2007

S.O. No. : MA

Туре : SMALL /MED FAB

First Issue : 27347 Previous Run

Written By Checked & Approved By

Comment

02.04.30 New Issue NG : Est. Est. Rev B New dwg rev. ecn781 06.04.18 EC Now on Waterjet 06-06-08 JLM Est Rev:C

Est. rev.D added scuffing NCR 061 EC Est Rev:B As per ECN #829 06-11-20 JLM

Additional Product

Job Number:



Seq. #:

**Machine Or Operation:** 

Description: 2024-T3 .032 sheet

1.0

M2024T3S032

1.0773 sf(s)

Comment: Qtv.: 0.1796 sf(s)/Unit Total:

2024-T3 .032 sheet

Matl: 2024-T3 ( QQ-A-250/4 ) .032" thick

(M2024T3S.032)

Batch W LOO 384

2.0

WATER JET

Comment: FLOW WATER JET

1-Cut as per Dwg D3140

\*\*Ensure grain direction is correct\*\*\*\*\*

Dwg Rev:\_

Prog Rev:\_

B07-09-07

2-Deburr if necessary



3.0 QC2

07-09-02

Comment: INSPECT PARTS AS THEY COME OFF MACHINE

4.0

QC8

SECOND CHECK



Comment: SECOND CHECK



Page 1

## **Dart Aerospace Ltd**

W/O:		WORK ORDER CHA	NGES				
DATE	STEP	PROCEDURE CHANGE	. Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							·
Part No	):	PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date: <u>(</u>	Blaules
			QA:	N/C Close	d:	Date:	

NCR:			WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B			Ammanal					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector				
							-					
				•								

NOTE: Date & initial all entries

	Friday, 8/31/2007 Kim:Johnston		cess Sheet		·
Custom	ner: CU <sub>7</sub> DAR001	Dart Helicopters Services	Drawing Name: D	OOUBLER	
Job Numb	oer: 34376		Part Number: D	314098	
Job Number:					
Seq. #:	Machine Or			ription :	
5.0	SMALL FAB 1	SMAL	.L & MEDIUM FAB RESOUR	RCE 1	
Con	nment: SMALL &	MEDIUM FAB RESOURCE 1		SD 08/0	1103
	1-Form as	s per Dwg D3140			
	2-Scuff su	urfaces with 80grit sandpaper per QSI 00	06 SAD	08/01/03	6
	3-Deburr. No sharp		9/22 (	6	
6.0	QC5		ECT WORK TO CURRENTS	STEP	
		WORK TO CURRENT STEP		J 28 lar 104	(46)
7.0	HAND FINISH		) FINISHING RESOURCE #1		6
Con		NISHING RESOURCE #1 Conversion Coat as per QSI 005 4.1	b.K	08-01-	/2 >
8.0			ECT POWDER COAT/CHEM	MICAL CONVERSION	
9.0	nment: INSPECT PACKAGING 1	POWDER COAT/CHEMICAL CONVER	RSION AGING RESOURCE #1	08/0	11/12
			AGING NEGOCINE #1		
Com	Identify ar  Location:	ING RESOURCE #1 nd Stock	Elike	50 (6a)	
10.0	QC21	FINAL	. INSPECTION/W/O RELEAS		
					6)
Com	nment: FINAL INS	SPECTION/W/O RELEASE		2	08/01/15
Job Completion				U 08.0	1.15

## **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDUI	RE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
		<u>.</u>									
Part No	):	PAR #: Fai	ult Category:	NCR: Yes	No DO	Δ.	Date:				

Part No:	PAR #:	_ Fault Category:	_ NCR: Yes No	DQA:	Date: _	
			QA: N/C	Closed:	Date:	

NCR:			WORK ORD	ER NON-CONFORMAN	CE (NCR)			
		Description of NC		Corrective Action Section B	Verification	A	A 1	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
			•					

NOTE: Date & initial all entries



DESIG	#	DRAWN BY	DART AEROSPA HAWKESBURY, ONTARIO	
CHECK	(ED)	APPROVED ,	DRAWING NO.	REV. F
	Mek	##T	D3140	SHEET 1 OF 7
DATE			TITLE	SCALE
06.1	0.06		DOOR	NTS
Α		02.04.18	NEW ISSUE	

06.11.13

06.1	0.06	DOOR NTS
Α	02.04.18	NEW ISSUE
В	03.01.23	REMOVE -65/-81/-83; ADD -301/-303
С	04.11.08	CHANGE DELASTEK SPEC. TEC-77; ADD PART MARKING; ADD NOTES 11, 12, 13; CHANGE ANGLE -95/-97/-98 TO 106°
D	05.11.23	ADD -103/-104/-105/-106; REMOVE -67
E.	06.06.09	1.75 WAS 1.88, 4.75 WAS 4.13 ON -08/-07, 1.00 WAS 1.20 ON -09/-10
F	06.10.06	ADD NOTE 14; CORRECT PART TITLE, NOW D3140-09/-92/-104 SHOWN D3140-10/-91/-103 OPPOSITE

QTY	QTY	QTY	QTY	QTY	QTY		DESCRIPTION	
-05	-06	-07	-08	-09	-10	PART NUMBER	DESCRIPTION	
X						D3140-05	DOOR	
	X					D3140-06	DOOR	
		Х			<u></u>	D3140-07	DOOR	
			X			D3140-08	DOOR	
		1		X		D3140-09	DOUBLER ASSEMBLY	
			1		Х	D3140-10	DOUBLER ASSEMBLY	
			<u></u>		<u> </u>			
3	3					D3140-57	PAD	
1	1					D3140-59	PAD	
2	2	-				D3140-61	PAD	
2	2					D3140-63	PAD	
		1	1			D3140-69	PAD	
		1	1			D3140-71	PAD	
		1	1			D3140-73	PAD	
		1	1			D3140-75	PAD	
		1	1			D3140-77	PAD	
		1	1			D3140-79	PAD	
_				1	1	D3140-85	ANGLE	
1	1					D3140-87	DOUBLER STOP CO	OPY
				1	1	D3140-89	DOUBLER	J.TO
		1				D3140-91	DOUBLER FETURI	-DING
			1			D3140-92	DOUBLER E IGINER	CC
3	3					D3140-95	DOUBLER ENGINEER  DOUBLER UNCON TROL	LED CC
1						D3140-97		
	1					D3140-98	DOODLER "METON!	MOTICE
		1	1			D3140-99	DOUBLER WORK	ORDER,
*		2	2			D3140-101	DOUBLER	ORDER 376
		1				D3140-103	DOUBLER NO. 29	and when the state of
			1			D3140-104	DOUBLER	\
		1				D3140-105	DOUBLER /D	\
			1			D3140-106	DOUBLER	
1	1					D3140-241	DOUBLER	
1		1				D3140-301	DOUBLER	
	1		1			D3140-303	DOUBLER	
						140004004504	DIVET	
1				5	5	MS20426AD3-4	RIVET	

Copyright © 2002 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



DESIGN #	CB		ROSPACE LTD RY, ONTARIO, CANADA
CHECKED	APPROVED ,	DRAWING NO.	REV. F
Mek	At 1	D3140	SHEET 2 OF 7
DATE	· · · · · · · · · · · · · · · · · · ·	TITLE	SCALE
06.10.06		DOOR	NTS



COMPOSITE LAYUP & BONDING I.A.W. DELASTEK PROCESS SPEC. TEC-77 MATERIAL STORAGE & HANDLING TO BE I.A.W. DART QSI 006 MAIN LAYUP USES FIBERCOTE E-761/7781 EPOXY FIBERGLASS. FILL WITH EPOCAST 87269 OR MAGNOBOND 77 A & B AND MA560 FOAM/ NB-51/30 FOAM



FINISH: DUPONT HIGHBUILD GREY PRIMER 1144-S

MAKE PARTS IN ACCORDANCE WITH THE FOLLOWING TOOLS/MOLDS:

PART	TOOL
D3140-05	B30-23000-01T
D3140-06	B30-23000-02T
D3140-07	B30-23000-03T
D3140-08	B30-23000-04T
D3140-57	B30-23000-57T
D3140-61	B30-23000-61T
D3140-63	B30-23000-63T
D3140-69	B30-23000-69T
D3140-71	B30-23000-71T
D3140-73	B30-23000-73T
D3140-75	B30-23000-75T
D3140-77	B30-23000-77T
D3140-79	B30-23000-79T
D3140-89	D3140-89T1
D3140-301	D3140-301T1
D3140-303	D3140-303T1

ALL DIMENSIONS IN INCHES



MATERIAL: 2024-T3 (QQ-A-250/4) 0.032 THICK (M2024T3S.032) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: 2024-T3 (QQ-A-250/4) 0.020 THICK (M2024T3S.020) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: 5052-H32/H34 (QQ-A-250/8) 0.040 THICK (M5052H32S.040) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: POLIMEX TR75 1" THICK 4.5 LB KLEGECELL



TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (M6061-T6S.063) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



DOUBLER TO SIT ON TOP OF FOAM AT THIS LOCATION



DOUBLER TO BE RECESSED FLUSH INTO FOAM AT THIS LOCATION



RUBBER STAMP WITH DART P/N D3140-05/-06/-07/-08 USING MIL-STD-130



PARTS MUST BE SCUFFED WITH 80 GRIT SANDPAPER PRIOR TO ACID ETCH AND ALODINE PER DART QSI 005 4.1



SHOP COPY RETURN TO

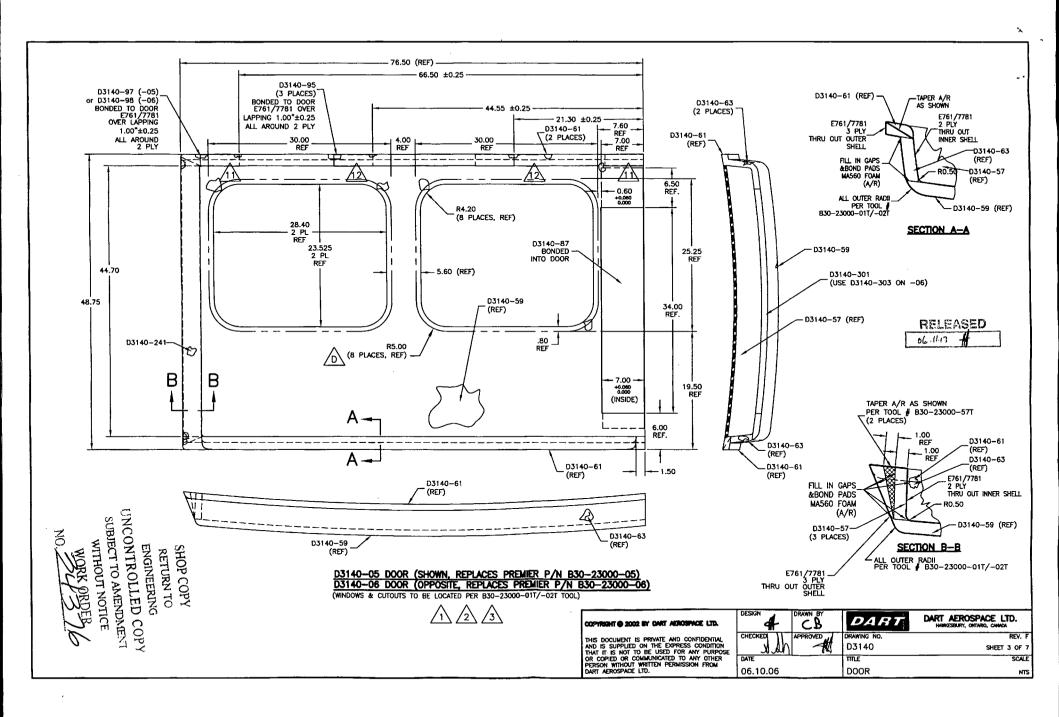
ENGINEERING UNCONTROLLED COPY

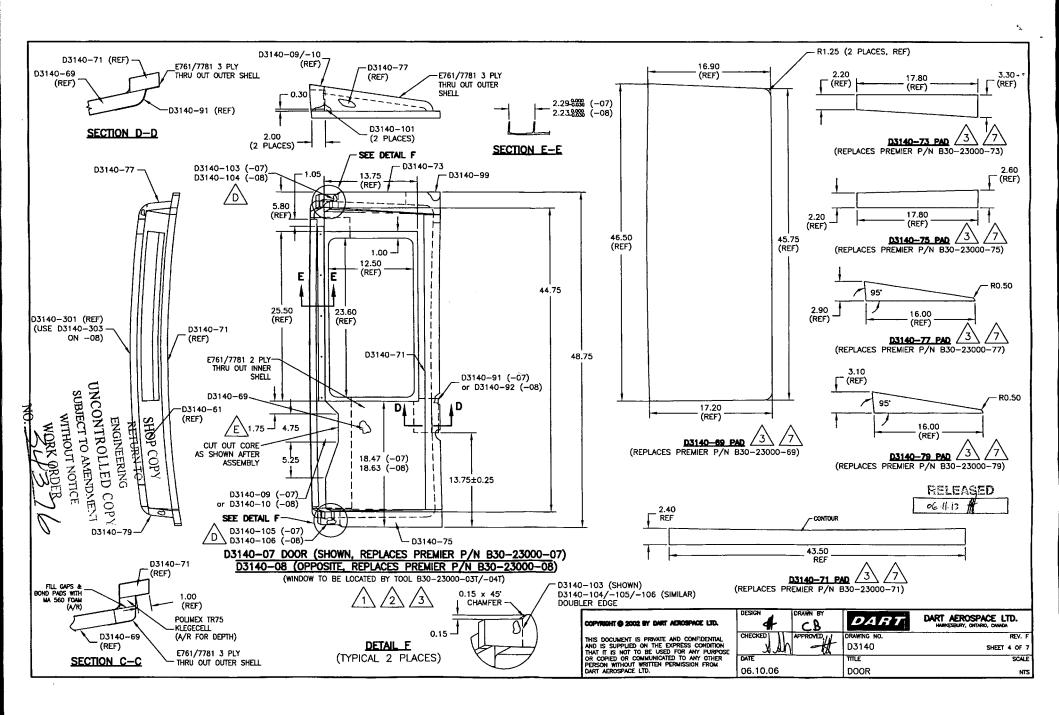
SUBJECT TO AMENDMENT

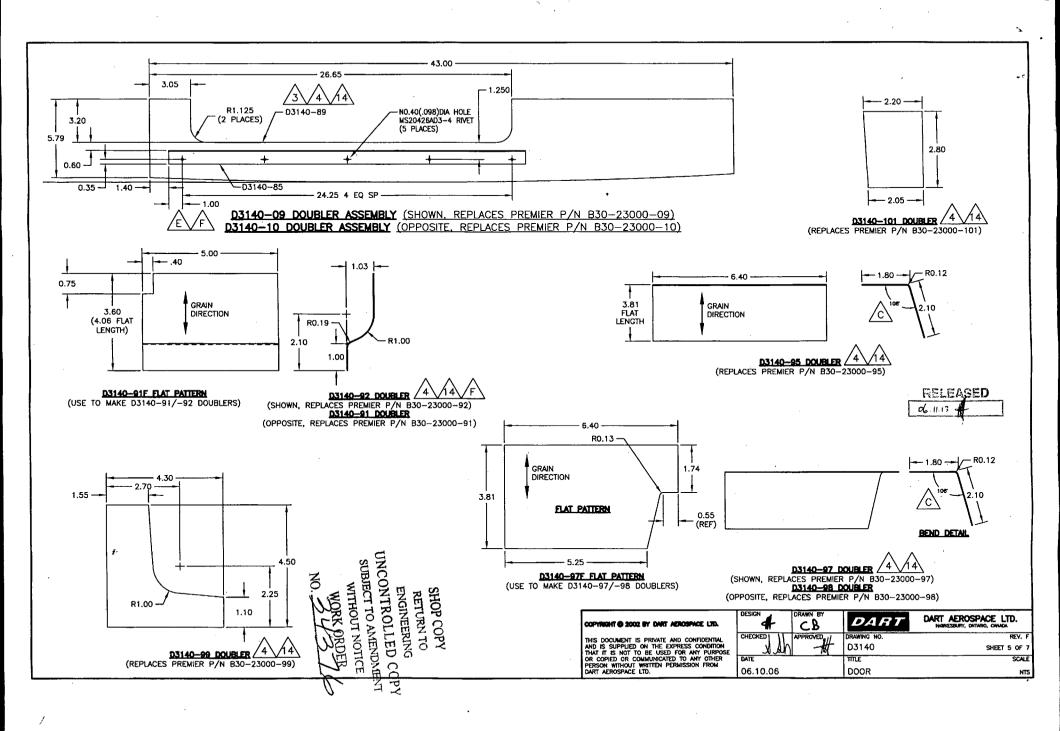
WITHOUT NOTICE

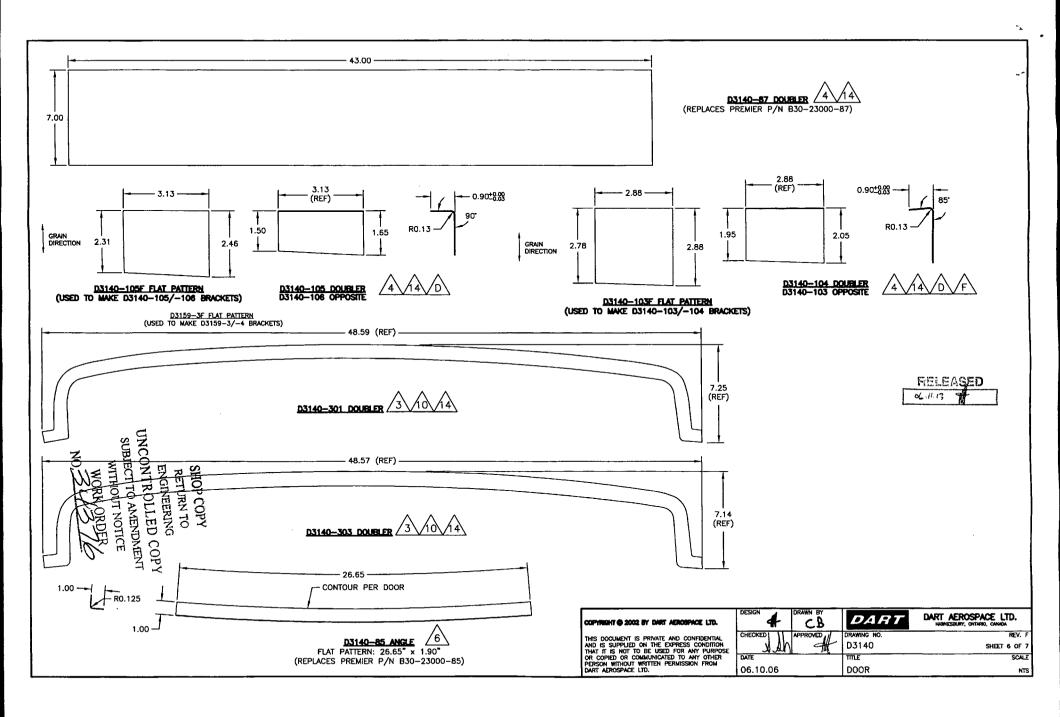
Copyright © 2002 by DART AEROSPACE LTD

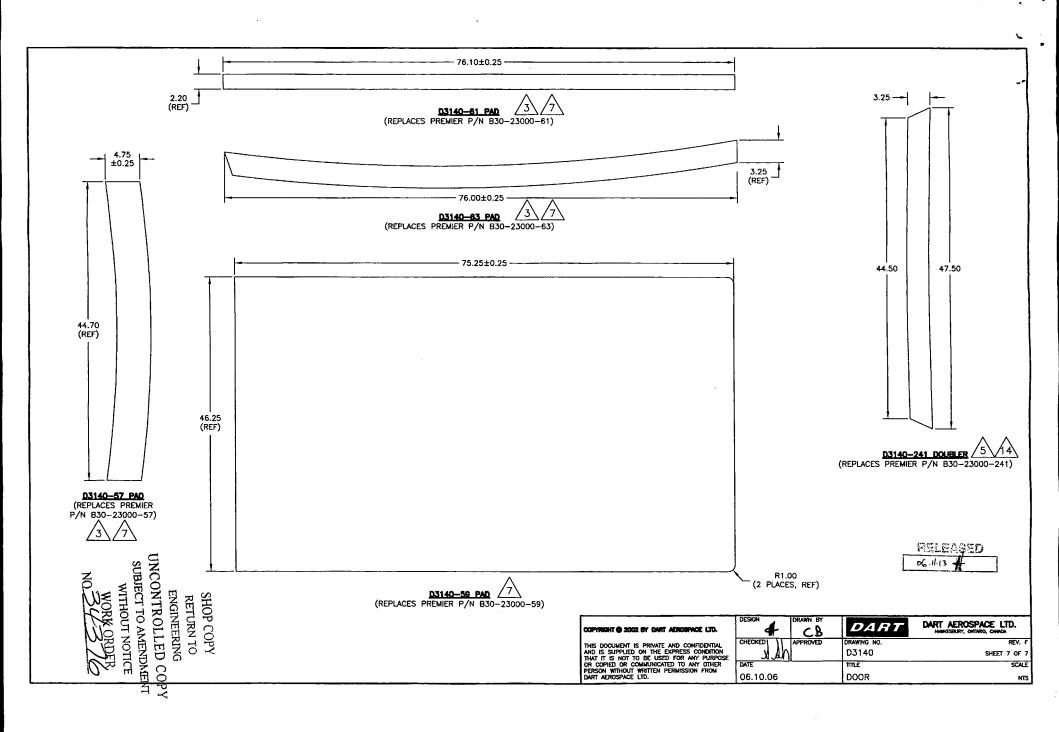
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.











	•	
DART AEROSPACE LTD	Work Order: 34	1376
Description: Daublek	Part Number: D3	140-1498
Inspection Dwg: Rev:	Pa	ge 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

· [		X	First Article		Prototype			
Drawing '	Tolerance		Actual Dimension	Accept	Reject	Method Inspect		Comments
6.40	4- ,030	·	6.40	¥				
3.81	t/030		3.81	×				,
26.2	t/ -030		2.92	×				
1.74	4/030		1.735	74				
. \$5	t/ .030		155	X				
				<b>'</b>				
ļ	4							
	·						**	<b>4</b> · · <b>4</b> · · ·
		·.						
						,		
		ALC HILLIAM TO						
• .	·							
\								
sured by:	1B	А		òn	F	Prototype Approval:		
Date:	CO-PO-10		Date:	M 04/0	4] [		Date:	
Date	Change			· [	<u> </u>		Revised	by Approved
	New Issue				n ,		KJ/JLM	





HIFORMSIC Mo